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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/645,451	08/21/2003	Joseph L. Bryant	4115-150 CIP DIV	7909
23448 7590 05/20/2008 INTELLECTUAL PROPERTY / TECHNOLOGY LAW PO BOX 14329 PESSEA P.CH. TRIANCLE DADK. N.C. 27700			EXAMINER	
			NOBLE, MARCIA STEPHENS	
RESEARCH TRIANGLE PARK, NC 27709		27709	ART UNIT	PAPER NUMBER
			1632	
			MAIL DATE	DELIVERY MODE
			05/20/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

## Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)	
10/645,451	BRYANT ET AL.	
Examiner	Art Unit	

	MARCIA S. NOBLE	1632					
The MAILING DATE of this communication appe	ars on the cover sheet with the c	correspondence add	ress				
THE REPLY FILED <u>09 April 2008</u> FAILS TO PLACE THIS APP	LICATION IN CONDITION FOR AL	LOWANCE.					
<ol> <li>The reply was filed after a final rejection, but prior to or on application, applicant must timely file one of the following application in condition for allowance; (2) a Notice of Appe for Continued Examination (RCE) in compliance with 37 C periods:</li> </ol>	replies: (1) an amendment, affidavit eal (with appeal fee) in compliance	t, or other evidence, w with 37 CFR 41.31; or	hich places the (3) a Request				
a) The period for reply expires <u>3</u> months from the mailing date		to the Constant of the late	-le' l-( l				
b) The period for reply expires on: (1) the mailing date of this A no event, however, will the statutory period for reply expire la Examiner Note: If box 1 is checked, check either box (a) or (MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f)	ater than SIX MONTHS from the mailing b). ONLY CHECK BOX (b) WHEN THE	g date of the final rejection	n.				
Extensions of time may be obtained under 37 CFR 1.136(a). The date of have been filed is the date for purposes of determining the period of extunder 37 CFR 1.17(a) is calculated from: (1) the expiration date of the set forth in (b) above, if checked. Any reply received by the Office later may reduce any earned patent term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL	ension and the corresponding amount of hortened statutory period for reply original controls.	of the fee. The appropria nally set in the final Offic	ate extension fee e action; or (2) as				
<ol> <li>The Notice of Appeal was filed on A brief in comp filing the Notice of Appeal (37 CFR 41.37(a)), or any exter Notice of Appeal has been filed, any reply must be filed with AMENDMENTS</li> </ol>	nsion thereof (37 CFR 41.37(e)), to	avoid dismissal of the					
3. The proposed amendment(s) filed after a final rejection, b	out prior to the date of filing a brief	will not be entered be	031160				
(a) They raise new issues that would require further cor (b) They raise the issue of new matter (see NOTE below	nsideration and/or search (see NOT		cause				
(c) They are not deemed to place the application in better appeal; and/or	er form for appeal by materially rec	ducing or simplifying th	ne issues for				
(d) ☐ They present additional claims without canceling a c NOTE: (See 37 CFR 1.116 and 41.33(a)).	corresponding number of finally reje	ected claims.					
4. 🔲 The amendments are not in compliance with 37 CFR 1.12		-	PTOL-324).				
5. Applicant's reply has overcome the following rejection(s): 35 U.S.C. § 112, second paragraph. 6. Newly proposed or amended claim(s) would be allowable if submitted in a separate, timely filed amendment canceling the							
non-allowable claim(s).  7. For purposes of appeal, the proposed amendment(s): a) [ how the new or amended claims would be rejected is prov The status of the claim(s) is (or will be) as follows:		l be entered and an ex	xplanation of				
Claim(s) allowed: Claim(s) objected to: Claim(s) rejected: <u>1-11</u> .							
Claim(s) withdrawn from consideration: <u>12-21</u> .  AFFIDAVIT OR OTHER EVIDENCE							
<ol> <li>The affidavit or other evidence filed after a final action, but because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e).</li> </ol>							
<ol> <li>The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to of showing a good and sufficient reasons why it is necessary</li> </ol>	vercome <u>all</u> rejections under appea and was not earlier presented. Se	al and/or appellant fails see 37 CFR 41.33(d)(1)	s to provide a				
10.	n of the status of the claims after er	ntry is below or attach	ed.				
<ol> <li>The request for reconsideration has been considered but <u>See Continuation Sheet.</u></li> </ol>	does NOT place the application in	condition for allowan	ce because:				
12. ⊠ Note the attached Information <i>Disclosure Statement</i> (s). ( 13. ☐ Other:	PTO/SB/08) Paper No(s). <u>1/24/200</u>	<u>08</u>					
	/Deborah Crouch, Ph.D Primary Examiner, Art U						

Continuation of 11. does NOT place the application in condition for allowance because: Enablement

Claims 1-11 remain rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Applicant further traverses this rejection. Applicant asserts that the post-filing art of Keppler et al (Exhibit A) demonstrates that the specification is enabling of the instant invention because Keppler et al teaches a double transgenic rat for hCD4 and hCCR5 whose T-cells, macrophages, and microglia are susceptible to infection by HIV-1 R5 viruses and are produced by crossing the single transgenic rats for CD4 and CCR5 in the manner disclosed by the specification (remarks, p. 4, par 2). Applicant's argument is not found persuasive. Keppler et al recapitulates that the art of producing a small animal model for HIV-1 infection was unpredictable because acquiring infectivity was problematic (p. 719, col 1 and 2, p. 720 col 1 through par 1). Keppler discloses a means to overcome some of the unpredictability because Keppler discloses that the vectors to produce both the hCD4 and hCCR5 transgenic rats were modified in a manner to ensure expression in the T cells and in cell from monocyte/macrophage lineage (p. 721, col 1, par 1 of Materials & Methods). These modifications were not disclosed in the specification and therefore the methods of Keppler and the specification would not be considered the same. Furthermore, the specification does not provide specific guidance on the production of a transgenic hCCR5 and only discloses that the double transgenic rat can be made by crossing a hCD4 rat with a hCCR5 rat. Therefore, because Keppler et al confirms the unpredictability of the art and demonstrates a post-filing improvement to produce a double transgenic hCD4/hCCR5 rat with HIV-1 infectivity that was not disclosed in the specification, the art of Keppler et al in fact demonstrates that at the time of filing the invention was made amidst an unpredictable art and that the specification did not provide the specific guidance necessary to overcome these unpredictabilities in the art. Applicant asserts that the art of Reid et al supports the instantly disclosed invention (p. 4, par 2). Applicant's argument is not found persuasive because Reid et al of Exibit B discloses an HIV trangenic rat and does not disclose a double transgenic rat expressing hCD4 and hCCR5. In view of Kessler the production of a transgenic rat for HIV is not sufficient to support allegations of enablement. Therefore, Reid et al is not enabling for the instantly claimed invention. Applicant asserts that the art of Goffinet et al which teaches the use of the hCD4/hCCR5 transgenic rat of Keppler et al for identification of anti-HIV drug demonstrates the enablement of the instantly claimed transgenic rat. This argument is not found persuasive because as discussed above, the transgenic rat taught by Keppler et all only enables the claimed transgenic rat post-filing and therefore demonstrates that the specification is not enable at the time of filing. Postfiling art can support enablement as long as no modifications to the disclosure occurs. In this case Keppler disclosed such modifications. Therefore, because Applicant's arguments are not found persuasive, and Applicant did not amend the claims to address the issues of enablement, the instant enablement rejection is maintained.

## New Matter

Claims 1-11 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. 37 CFR 1.118 (a) states that "No amendment shall introduce new matter into the disclosure of an application after the filing date of the application".

Amended claim 1 recites, "wherein the transgenic rat is a model for human HIV-1 binding". The specification as originally filed provides no implicit or explicit support for this recitation.

Applicant traverses this rejection. Applicant cites p. 2, line 32 -p 3, line 4 as supporting the instant recitation. This recitaion is not found persuasive because it discloses the general mechanism of CD4-gp120 binding. This would not be considered a disclosure of a transgenic rat that is model for human HIV-1 binding as claimed. From the specification, Applicant recites, " a nucleic acid encoding human CD4, or a portion thereof sufficient for binding to gp120..." as supporting disclosure of the above asserted new matter. This recitation from the specification would not be considered an implicit or explict disclosure of transgenic model for human HIV-1 binding because again this is disclosing a general mechanism of binding and not a rat that would comprise all the characteristics that would represent an animal model for human HIV-1 binding. Therefore, because Applicant's arguments are not found persuasive, and Applicant did not put forth amendments to the claims to address the new matter, the new matter rejection of record is maintained.